

In the Claims:

Please cancel Claims 13 and 17, and amend Claims 12 and 16. A detailed listing of the claims is provided, below.

Claims 1 - 11. (Cancelled).

12. (Currently Amended) A method of using temperature effect on a crystalline ceramic material to reduce the thermal conductivity of said crystalline ceramic material, said method comprising:

providing a ceramic material comprising $\text{BaNd}_2\text{Ti}_3\text{O}_{10}$, said ceramic material having a layered crystalline morphology and orientation; and

heating said ceramic material at a temperature sufficient to alter said crystalline orientation of said crystalline material.

13. (Cancelled).

14. (Original) The method of Claim 12 wherein said ceramic material is annealed.

15. (Original) The method of Claim 12 wherein said ceramic material is plasma sprayed.

16. (Currently Amended) A method of using the texture of a ceramic material to affect thermal conductivity of the ceramic material, said method of comprising:

December 1, 2005

Reply to Office Action of June 1, 2005

providing an anisotropic crystalline ceramic material comprising
BaNd₂Ti₃O₁₀, said crystalline material comprising a plurality of layered basal planes, said
material having a first crystallographic texture; and

treating said ceramic material to provide a second crystallographic texture.

17. (Cancelled).

~~5~~ 18. (Original) The method of Claim 16 wherein said ceramic material is
thermally stressed.

~~6~~ 19. (Original) The method of Claim 18 wherein said ceramic material is
annealed to induce said second crystallographic texture.